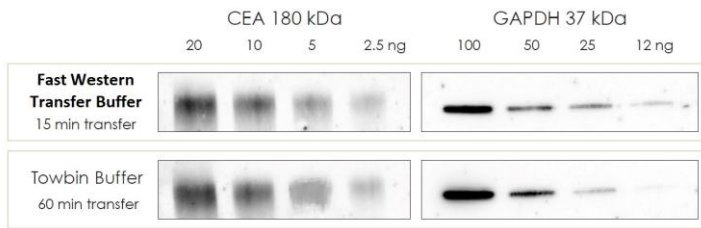


# Fast Western Transfer Buffer, 50X

## Overview of Fast Western Transfer Buffer:

Achieve improved detection of low-abundance and post-translationally modified proteins with Fast Western Transfer Buffer. This buffer allows improved transfer efficiency of all proteins, including high molecular weight proteins, for which a complete transfer is often very difficult to achieve.



- **HIGH PERFORMANCE** – Increased protein retention and fast transfer times with more sensitive detection
- **EFFICIENT** – Enhanced transfer efficiency for proteins of all sizes
- **FAST** – Transfer time reduced to less than 20 minutes
- **CONVENIENT** – Compatible with all wet transfer electrophoresis apparatus

## Preparation of 1x Western Transfer Buffer:

- For example, each 1L of 1x buffer, combine 20 ml of 50x Fast Western Transfer Buffer, 200 ml of methanol and 780 ml water. The diluted buffer is stable at room temperature so larger volumes of the 1x buffer can be prepared and stored for future use.
- To avoid air bubbles in the buffer, prepare the buffer at least 10 minutes at room temperature before use.

## Tips:

- Cut the blotting paper and membrane to fit the gel.
- Never touch the membrane or gel with bare hands. Use forceps to make adjustments.
- Clean blotting apparatus with water after every use.

## Short Protocol:

(For PVDF membranes, pre-wet with methanol for 10–15 seconds then rinse with high purity water for 5 minutes before equilibrating with Fast Western Transfer buffer.)

1. Follow standard protocol for SDS-PAGE.
2. Arrange transfer apparatus per manufacturer's instructions using 1x Fast Western Transfer Buffer.
3. Conduct transfer at room temperature for 15–20 minutes at 12 V/cm. For example, for the Bio-Rad Mini-PROTEAN® transfer cell which has a 4.6 cm distance between electrodes, conduct the transfer at 55 V. **Please note:** For complete transfer of proteins larger than 150 kDa, conduct the transfer for 30 minutes with a constant current of 300 mA with any transfer apparatus.
4. Following the transfer, rinse the blot in water on a shaker for 10 minutes.
5. Continue with Western blotting according to your protocol.

## For Orders:

Catalog Number	Product	Size
NB053090500	Fast Western Transfer Buffer	500 mL